



IFW

Docket No. 0575/66236/JPW/AJM/DNS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : C. Dominique Toran-Allerand  
Serial No. : 10/665,847  
Filed : September 19, 2003  
For : NOVEL CELL-SURFACE ESTROGEN RECEPTOR AND  
RELATED COMPOSITIONS AND METHODS

1185 Avenue of the Americas  
New York, New York 10036  
December 22, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with their duty of disclosure under 37 C.F.R. §1.56, applicants would like to direct the Examiner's attention to the following documents which are listed on Form PTO-1449 (**Exhibit A**) and are also listed below.

This Supplemental Information Disclosure Statement is being submitted pursuant to 37 C.F.R. §1.97(b)(3) before the mailing of a first Office Action on the merits. Thus, this Supplemental Information Disclosure Statement should be entered and considered. Copies of the documents listed below as items 1-18 are attached hereto as **Exhibits 1-18**.

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1. Trotter A., and Pohlandt F. (2000) The replacement of oestradiol and progesterone in very premature infants. Ann. Med. 32:608-614 (**Exhibit 1**);
2. Toran-Allerand C.D. (1996) The estrogen/neurotrophin connection during neural development: is co-localization of estrogen receptors with the neurotrophins and their receptors biologically relevant? Dev. Neurosci. 18:36-48 (**Exhibit 2**);
3. Singh M. (2001) Ovarian hormones elicit phosphorylation of Akt and extracellular-signal regulated kinase in explants of the cerebral cortex. Endocrine 14:407-415 (**Exhibit 3**);
4. Miranda R.C., and Toran-Allerand C.D. (1992) Developmental expression of estrogen receptor mRNA in the rat cerebral cortex: A non-isotopic *in situ* hybridization histochemistry study. Cerebral Cortex 2:1-15 (**Exhibit 4**);
5. Hajek R.A., et al. (1997) During development, 17  $\alpha$ -estradiol is a potent estrogen and carcinogen. Environ. Health Perspect. 105 Suppl 3:577-581 (**Exhibit 5**);
6. Dubal D.B., et al. (1998) Estradiol protects against ischemic injury. J. Cereb. Blood Flow Metab. 18:1253-1258 (**Exhibit 6**);
7. Traverse S., et al. (1992) Sustained activation of the mitogen-activated protein (MAP) kinase cascade may be required for differentiation of PC12 cells. Comparison of the effects of nerve growth factor and epidermal growth factor. Biochem. J. 288:351-355 (**Exhibit 7**);

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8. Chiaia N., et al. (1983) The Hamster Hippocampal Slice: II. Neuroendocrine Modulation. Behav. Neurosci. 97:839-843 (Exhibit 8);
9. Shughrue P.J., et al. (1990) Developmental changes in estrogen receptors in mouse cerebral cortex between birth and postweaning: studied by autoradiography with 11 beta-methoxy-16 alpha-[<sup>125</sup>I] iodoestradiol. Endocrinology 126:1112-1124 (Exhibit 9);
10. Thuresson-Klein A., et al. (1985) Estrogen stimulates formation of lamellar bodies and release of surfactant in the rat fetal lung. Am. J. Obstet. Gynecol. 151:506-514 (Exhibit 10);
11. Pietras R.J., and Szego C.M. (1977) Specific binding sites for oestrogen at the outer surfaces of isolated endometrial cells. Nature 265:69-72 (Exhibit 11);
12. Gutkind J.S. (2000) Regulation of mitogen-activated protein kinase signaling networks by G protein-coupled receptors. Sci. STKE 40:RE1. Review pp. 1-13 (Exhibit 12);
13. Goldman P.S., et al. (1974) Sex-dependent behavioral effects of cerebral cortical lesions in developing rhesus monkey. Science 186:540-542 (Exhibit 13);

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14. Simpkins J.W., et al. (1997) Estrogens may reduce mortality and ischemic damage caused by middle cerebral artery occlusion in the female rat. J. Neurosurg. 87:724-730 (**Exhibit 14**);
15. Tallal P. (1991) Hormonal influences in developmental learning disabilities. Psychoneuroendocrinology 16:203-211 (**Exhibit 15**);
16. McGookey D.J., et al. (1983) Filipin-cholesterol complexes form in uncoated vesicle membrane derived from coated vesicles during receptor-mediated endocytosis of low density lipoprotein. J. Cell Biol. 96:1273-1278 (**Exhibit 16**);
17. White R., et al. (1987) Structural organization and expression of the mouse estrogen receptor. Mol. Endocrinol. 1:735-744 (**Exhibit 17**); and
18. Migliaccio A., et al. (1993) Immediate and transient stimulation of protein tyrosine phosphorylation by estradiol in MCF-7 cells. Oncogene. 8:2183-2191 (**Exhibit 18**).

Applicants request that the Examiner review the references and make them of record in the subject application.

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If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorneys invite the Examiner to telephone them at the number provided below.

No fee is deemed necessary in connection with the filing of this Supplemental Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:  
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Alan J. Morrison  
Reg. No. 37,399

Date

12/22/07

Form PTO 4449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 66236/JPW/AJM/DNS	Serial No. 10/665,847
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Applicants: C. Dominique Toran-Allerand	
		Filing Date September 19, 2003	Group

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Trotter A., and Pohlandt F. (2000) The replacement of oestradiol and progesterone in very premature infants. <u>Ann. Med.</u> 32:608-614;
	Toran-Allerand C.D. (1996) The estrogen/neurotrophin connection during neural development: is co-localization of estrogen receptors with the neurotrophins and their receptors biologically relevant? <u>Dev. Neurosci.</u> 18:36-48;
	Singh M. (2001) Ovarian hormones elicit phosphorylation of Akt and extracellular-signal regulated kinase in explants of the cerebral cortex. <u>Endocrine</u> 14:407-415;
	Miranda R.C., and Toran-Allerand C.D. (1992) Developmental expression of estrogen receptor mRNA in the rat cerebral cortex: A non-isotopic <i>in situ</i> hybridization histochemistry study. <u>Cerebral Cortex</u> 2:1-15;
	Hajek R.A., et al. (1997) During development, 17 $\alpha$ -estradiol is a potent estrogen and carcinogen. <u>Environ. Health Perspect.</u> 105 Suppl 3:577-581;
	Dubal D.B., et al. (1998) Estradiol protects against ischemic injury. <u>J. Cereb. Blood Flow Metab.</u> 18:1253-1258;
	Traverse S., et al. (1992) Sustained activation of the mitogen-activated protein (MAP) kinase cascade may be required for differentiation of PC12 cells. Comparison of the effects of nerve growth factor and epidermal growth factor. <u>Biochem. J.</u> 288:351-355;
	Chiaia N., et al. (1983) The Hamster Hippocampal Slice: II. Neuroendocrine Modulation. <u>Behav. Neurosci.</u> 97:839-843;
	Shughrue P.J., et al. (1990) Developmental changes in estrogen receptors in mouse cerebral cortex between birth and postweaning: studied by autoradiography with 11 beta-methoxy-16 alpha-[ <sup>125</sup> I] iodoestradiol. <u>Endocrinology</u> 126:1112-1124;
	Thuresson-Klein A., et al. (1985) Estrogen stimulates formation of lamellar bodies and release of surfactant in the rat fetal lung. <u>Am. J. Obstet. Gynecol.</u> 151:506-514;
	Pietras R.J., and Szego C.M. (1977) Specific binding sites for oestrogen at the outer surfaces of isolated endometrial cells. <u>Nature</u> 265:69-72;
	Gutkind J.S. (2000) Regulation of mitogen-activated protein kinase signaling networks by G protein-coupled receptors. <u>Sci. STKE</u> 40:RE1. Review pp. 1-13;
	Goldman P.S., et al. (1974) Sex-dependent behavioral effects of cerebral cortical lesions in developing rhesus monkey. <u>Science</u> 186:540-542;

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicants: C. Dominique Toran-Allerand  
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 Exhibit A

[illegible]